

GENERAL:

- ALL NOTES HERE APPLY TO ALL YARD DRAWINGS.
- ALL ELEVATIONS ARE BASED ON USGS MSL. SEE DRAWING G-2 FOR CONTROL INFORMATION.
- WORK IS BEING PERFORMED IN AN OPERATING WASTEWATER TREATMENT PLANT. CONTRACTOR SHALL COORDINATE ALL WORK WITH OWNER'S OPERATION STAFF PRIOR TO PLANT OR UTILITY SHUTDOWNS. SEE ALSO SPECS FOR WORK CONSTRAINTS.
- PROCESS AND UTILITY SHUTDOWNS SHALL BE SCHEDULED FOR NON-PEAK FLOW PERIODS AS SPECIFIED IN SECTION 01140.
- CONTRACTOR SHALL PROVIDE NECESSARY MEANS OF SHORING, BRACING, BARRICADING, ETC. IN ORDER TO PROVIDE EXISTING/NEW FACILITY AND UTILITY PROTECTION. SEE SPECIFICATION 02260.
- COVER OPEN TRENCH AREAS WITH TRAFFIC PLATES WHERE PLANT ACCESS IS IMPACTED BY CONSTRUCTION ACTIVITY. PROVIDE SIGNS AND BARRICADES TO DIRECT TRAFFIC, AS REQUIRED.
- PROVIDE STRUCTURAL FILL OR AGGREGATE PER SECTION 02300 PRIOR TO PLACEMENT OF STRUCTURES, SIDEWALKS, AND AC PAVEMENT.
- WHERE NEW AND EXISTING ITEMS ARE SHOWN ON THE SAME SHEET, NEW AND MODIFIED ITEMS ARE INDICATED WITH HEAVIER LINES.
- EXISTING UTILITIES SHOWN ON THE PLANS ARE APPROXIMATELY LOCATED AND MAY HAVE BEEN FIELD LOCATED. EXISTING UTILITIES SHOWN FOR THE CONVENIENCE OF THE CONTRACTOR ONLY. THE CONTRACTOR SHALL LOCATE UTILITIES PER SECTION 02280, AND SHALL BE RESPONSIBLE FOR PRESERVING ALL PIPING UTILITIES, INCLUDING THOSE NOT SHOWN OR INCORRECTLY SHOWN ON THE PLANS.
- CONTRACTOR IS RESPONSIBLE FOR ALL SITE DEWATERING PER SECTION 02240. CONTRACTOR SHALL COMPLY WITH ALL RECOMMENDATIONS IN THE GEOTECHNICAL REPORT, AS LISTED IN THE SPECIFICATIONS. GEOTECH REPORT AVAILABLE UPON REQUEST.
- EXCAVATION SPOILS SHALL BE DISPOSED OF OFFSITE AT NO EXPENSE TO OWNER OR ENGINEER.
- ALL TOPO AND BASE MAPPING PROVIDED BY CARSON CITY.
- CONTRACTOR SHALL PERFORM TEMPORARY BYPASS PUMPING IN ACCORDANCE WITH SECTION 02550.

DEMOLITION:

- DEMOLITION TO BE COORDINATED WITH CONSTRUCTION OF OTHER FACILITIES. REFER TO SPECIFICATIONS FOR CONSTRUCTION SEQUENCING CONSTRAINTS.
- REFER TO ELECTRICAL DRAWINGS FOR LIMITS OF ELECTRICAL DUCT BANK AND CABLE DEMOLITION.
- REFER TO PAVING AND GRADING SHEETS FOR LIMITS OF PAVING AND CURB REMOVAL.
- DRAIN AND PLUG BOTH ENDS OF ABANDONED PIPE WITH CONCRETE.
- ALL ITEMS ARE EXISTING UNLESS OTHERWISE NOTED.
- ACTUAL DIMENSIONS, SIZES, AND LOCATION FOR EXISTING STRUCTURES, PIPING, AND UTILITIES ARE APPROXIMATE ONLY. CONTRACTOR SHALL FIELD VERIFY ACTUAL LOCATIONS PRIOR TO COMMENCING DEMOLITION WORK. UTILITIES NOT IDENTIFIED FOR DEMOLITION SHALL BE PRESERVED, INCLUDING THOSE NOT SHOWN OR SHOWN INCORRECTLY ON THE PLANS.
- CLEAR AND GRUB SITE AS INDICATED ON THE DRAWINGS IN ACCORDANCE WITH SPECIFICATION SECTION 02200.
- EXISTING PIPING IS SHOWN WITH SCREENED LINES FOR CLARITY.
- IF THE IMPROVEMENTS NECESSITATE THE OBLITERATION, TEMPORARY OBSTRUCTION, TEMPORARY REMOVAL, OR RELOCATION OF ANY EXISTING TRAFFIC PAVEMENT MARKING, TRAFFIC SIGN, OR IDENTIFICATION SIGN, SUCH ITEMS SHALL BE RESTORED OR REPLACED WITH LIKE MATERIALS. ALL SIGNS, POSTS, AND MARKINGS SHALL BE INSTALLED IN ACCORDANCE WITH CITY OF CARSON CITY STANDARDS.

PAVING AND GRADING:

- WHERE EXISTING ASPHALTIC CONCRETE PAVEMENT IS TO BE REMOVED AND REPLACED, REMOVE EXISTING PAVEMENT AND SUBGRADE TO THE ELEVATION NECESSARY TO INSTALL NEW PAVEMENT PER THE SPECIFICATIONS. PROVIDE 4" TYPE 2 AC PAVEMENT OVER 6" OF AGGREGATE BASE UNLESS NOTED OTHERWISE.
- FIELD ADJUST HEIGHT OF ALL EXISTING AND NEW MANHOLES, VAULTS, ELECTRICAL BOXES, HAND HOLES, VALVE BOXES, PIPELINE CLEANOUTS, ETC., AS NEEDED FOR NEW FINISH GRADES REQUIRED.
- ALL PAVING AND GRADING SHALL BE LAID ON UNIFORM GRADES BETWEEN ELEVATIONS GIVEN UNLESS OTHERWISE SHOWN. IF NEW ELEVATIONS ARE NOT INDICATED, THE CONTRACTOR SHALL ENSURE POSITIVE DRAINAGE BETWEEN EXISTING ADJACENT PAVEMENT IN THE DIRECTION OF THE PREVIOUS DRAINAGE COURSE.
- PROVIDE UNIFORM SLOPE BETWEEN ALL NEW GROUND CONTOUR LINES AND BETWEEN ALL EXIST AND NEW GROUND CONTOUR LINES UNLESS OTHERWISE NOTED.
- ALL TRAFFIC SIGNS SHALL CONFORM TO THE "MANUAL OF UNIFORM TRAFFIC CONTROL HANDBOOK" (LATEST EDITION) AND TO THE "MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES" (LATEST EDITION) ALL SIGN POSTS SHALL BE INSTALLED IN ACCORDANCE WITH CITY OF CARSON CITY STANDARDS. CONTRACTOR SHALL PROVIDE FIVE (5) ADDITIONAL TRAFFIC SIGNS OF EACH TYPE INDICATED ON PAVING AND GRADING DRAWINGS.
- IMPORT FILL MATERIAL SHALL MEET REQUIREMENTS PER SECTION 02300.
- DECOMPOSED GRANITE SHALL BE 3 INCH THICK UNLESS NOTED OTHERWISE.
- FILL BENEATH CIVIL STRUCTURES SHALL BE 18 INCH THICK MINIMUM UNLESS NOTED OTHERWISE. SEE SECTION 02300 FOR TYPE AND GRADATION.
- GRAVEL SHALL BE 2 INCH THICK UNLESS NOTED OTHERWISE. SEE SECTION 02300 FOR GRADATION.

YARD PIPING:

- COORDINATES AND ELEVATIONS FOR EXISTING PIPING AND UTILITIES ARE APPROXIMATE ONLY. CONTRACTOR SHALL FIELD VERIFY ACTUAL VERTICAL & HORIZONTAL LOCATIONS PER SECTION 02280 PRIOR TO EXCAVATION.
- SEE SPECIFICATIONS FOR SPECIAL PROTECTION OF ALL BURIED METALLIC PIPE.
- SHUTDOWNS FOR PIPING CONNECTIONS SHALL BE LIMITED AS PER SECTION 01140.
- PROTECT PIPING NOT IDENTIFIED FOR REMOVAL IN PLACE DURING CONSTRUCTION. ADD CONCRETE ENCASEMENTS WHERE PIPELINES PASS UNDERNEATH STRUCTURES.
- ALL YARD PIPING SHALL BE LAID ON UNIFORM GRADES BETWEEN GIVEN ELEVATIONS, UNLESS OTHERWISE SHOWN AND INSTALLED PER 
- ALL BURIED PIPING, FITTINGS, AND VALVING SHALL BE RESTRAINED FROM MOVEMENT DUE TO HYDRAULIC THRUST.
- PROVIDE TEMPORARY BYPASS PUMPING WITH PIPING AND FITTINGS TO MAINTAIN SERVICE TO PROCESSES DURING CONSTRUCTION IN ACCORDANCE WITH SECTION 02550. ROUTING OF THESE LINES SHALL BE COORDINATED WITH THE OWNER. LOCATION OF PIPING SHALL BE PLACED TO AVOID DAMAGE DURING CONSTRUCTION AND AVOID DISRUPTION TO PLANT OPERATIONS. SEE SECTION 01140 FOR WORK RESTRICTIONS.
- CONTRACTOR SHALL PROVIDE MINIMUM 2'-0" COVER OVER ALL PIPELINES.
- IRRIGATION LINES SHALL REMAIN IN SERVICE TO EXISTING LANDSCAPING, NOT DEMOLISHED, FOR DURATION OF CONSTRUCTION IN ACCORDANCE WITH SECTION 02550. IRRIGATION PIPING AND LANDSCAPING DAMAGED DURING DEMOLITION SHALL BE REPAIRED OR REPLACED AS NECESSARY.
- PROVIDE ALL FITTINGS AND APPURTENANCES REQUIRED TO MAKE A COMPLETE WATERTIGHT CONNECTION WHEN CONNECTING NEW PIPELINES TO EXISTING PIPELINES.
- PIPE CAPS FOR FUTURE DUCTILE IRON PIPING SHALL BE RESTRAINED PLUGS WITH GASKET AND 316 ST STL SET SCREWS.
- PIPE CAPS FOR PVC SHALL BE PERMANENT SOLVENT WELDED CAPS.

- THRUST BLOCKS FOR GRAVITY LINES 6 INCH DIAMETER AND SMALLER SHALL BE PROVIDED PER 
- PIPE SUPPORTS ACROSS TRENCHES SHALL BE PROVIDED PER  AT ALL PIPE CROSSINGS.
- CLEAN OUT TO GRADE (COTG) PER DETAIL 
- PIPING BENEATH ROADWAYS AND TRAFFIC AREAS SHALL BE CONCRETE ENCASED PER 
- DRAIN PIPES TO BE ABANDONED AND FILL BOTH ENDS WITH CONCRETE.

VERIFY SCALES
 BAR IS ONE INCH ON ORIGINAL DRAWING
 0 1"
 IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY

DESIGNED	JBR	DRAWN	PAT	CHECKED	GAG	DATE	OCTOBER 2010
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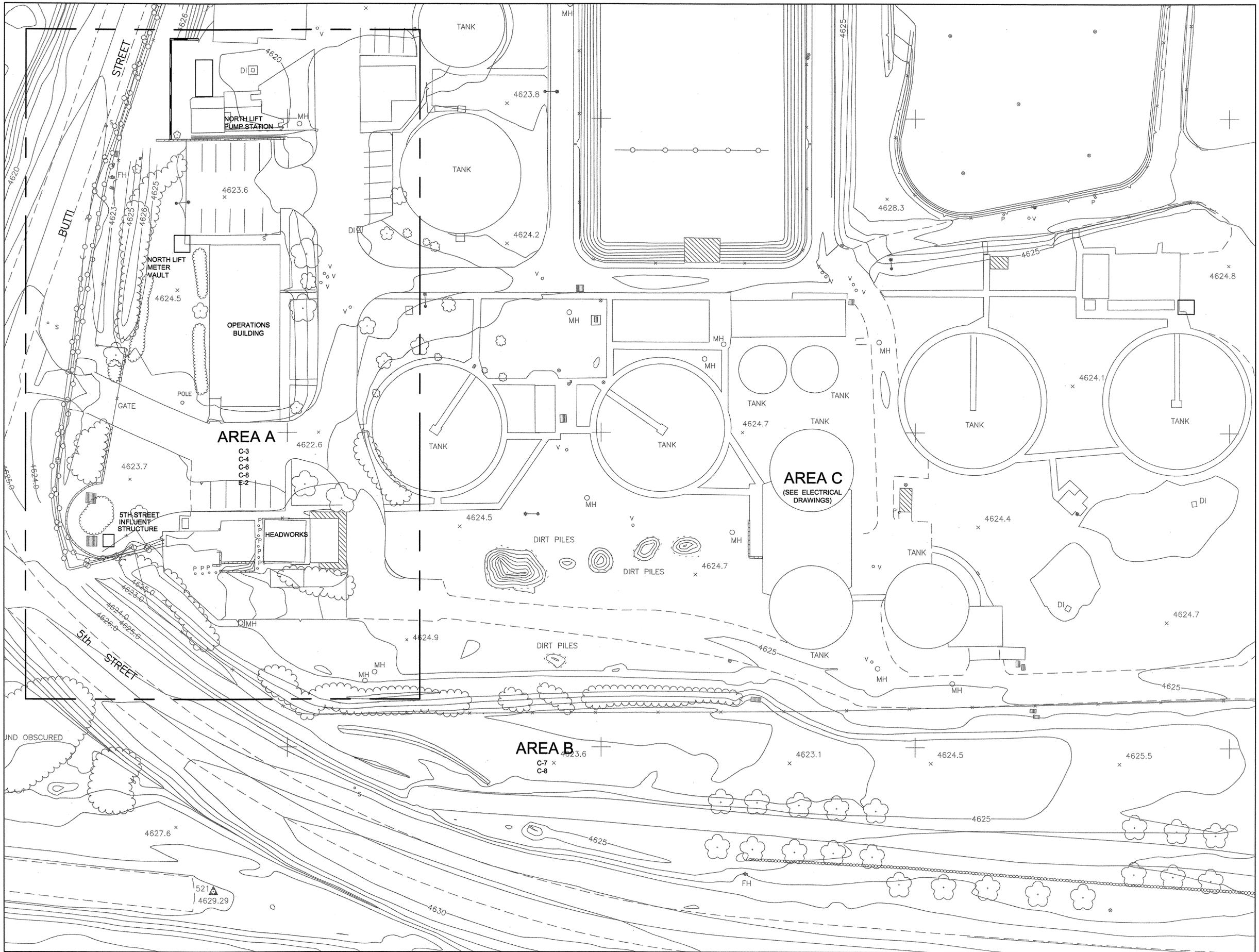
REV.	DATE	DESCRIPTION	BY	APPD

CARSON CITY PUBLIC WORKS
NORTH LIFT PUMP STATION IMPROVEMENTS
 CARSON CITY CIP NO. 5.0609
 CIVIL
 CIVIL NOTES

DRAWING NO.
C-1
 SHEET NO.
 8 OF 55

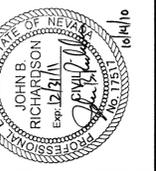


SCALE: 1" = 30'



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DATE	OCTOBER 2010

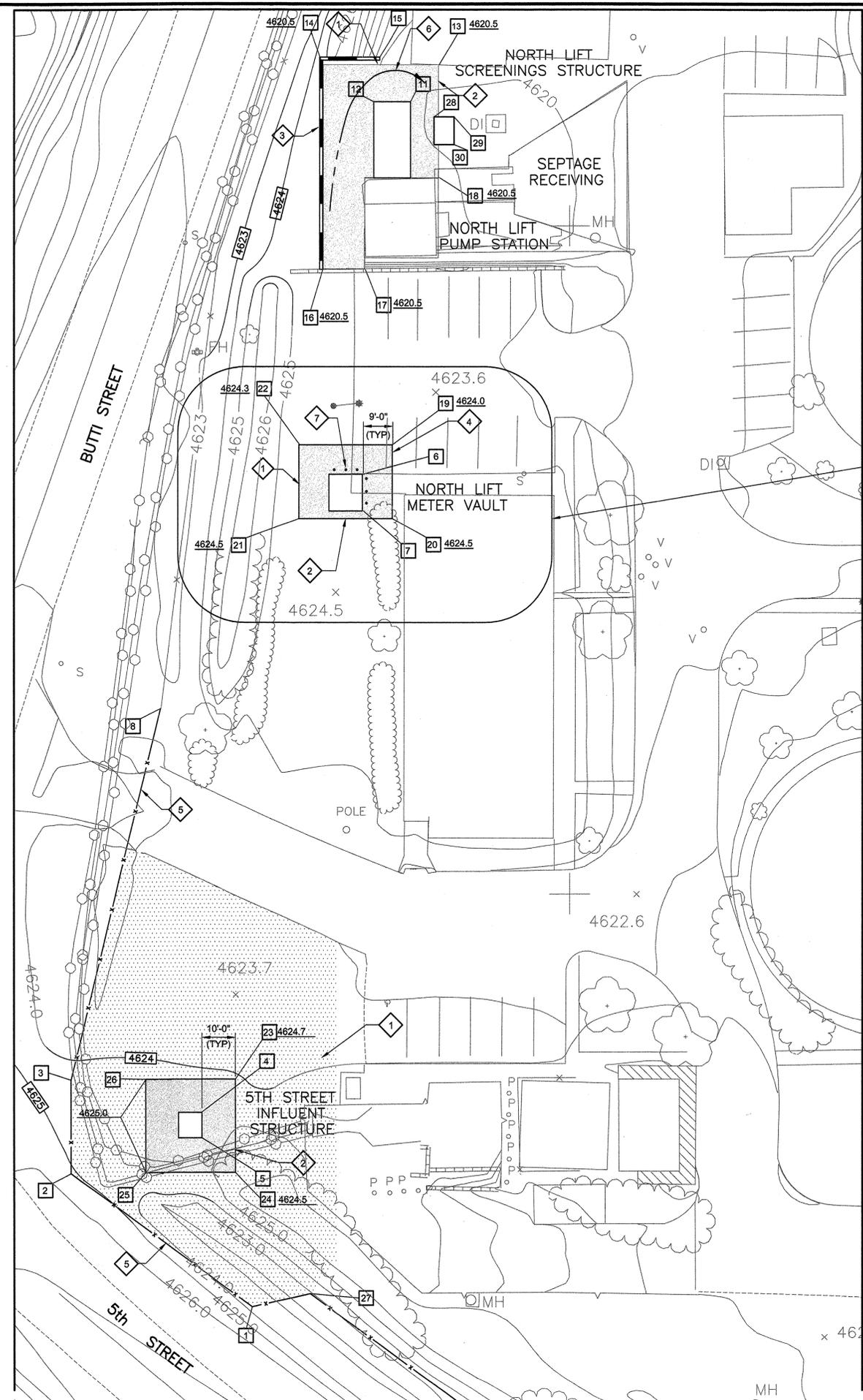


REV.	DATE	DESCRIPTION	BY	APP'D

CARSON CITY PUBLIC WORKS
NORTH LIFT PUMP STATION IMPROVEMENTS
 CARSON CITY CIP NO. 5.0609
 CIVIL
 SITE DRAWINGS KEY SHEET

DRAWING NO.
C-2
 SHEET NO.
 9 OF 55

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GENERAL NOTES:

- FOR CIVIL NOTES SEE C-1.
- COORDINATE NEW CONSTRUCTION WITH DEMOLITION ON PROCESS AND STRUCTURAL DWGS.

COORDINATE CONTROL DATA

	N	E
1	1608477.20	174304.87
2	1608516.78	174250.64
3	1608544.78	174250.64
4	1608534.79	174289.59
5	1608527.16	174289.87
6	1608655.45	174277.41
7	1608714.37	174338.28
8	1608655.45	174277.41
9	NOT USED	
10	NOT USED	
11	1608837.41	174352.40
12	1608837.41	174341.40
13	1608848.49	174360.95
14	1608848.49	174326.05
15	1608850.84	174343.21
16	1608786.83	174326.17
17	1608786.83	174318.10
18	1608814.52	174360.95
19	1608734.31	174347.13
20	1608711.96	174346.94
21	1608711.96	174318.95
22	1608734.28	174319.13
23	1608544.88	174299.87
24	1608516.97	174299.87
25	1608516.97	174273.03
26	1608544.88	174273.03
27	1608481.12	174322.29
28	1608832.79	174359.47
29	1608832.79	174365.47
30	1608824.29	174365.47

KEY NOTES:

- 1 RESTORE PAVEMENT, GRADING AND LANDSCAPING.
- 2 4" TYPE 2 AC OVER 8" TYPE 2 AB (95% COMPACT). SLOPE 2% AWAY FROM STRUCTURE.
- 3 CONSTRUCT RETAINING WALL PER A C-5
- 4 MATCH EXISTING AC PAVEMENT ELEVATION.
- 5 6' CHAIN LINK FENCE.
- 6 GRADE TO DRAIN TO SEPTAGE RECEIVING.
- 7 PROVIDE GUARD POST PER C160 TYP SPACED 5'-0" O.C.

SYMBOL LEGEND

- AC PAVEMENT
- DECOMPOSED GRANITE 2 INCHES THICK LAYER
- CMU RETAINING WALL

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DATE	OCTOBER 2010

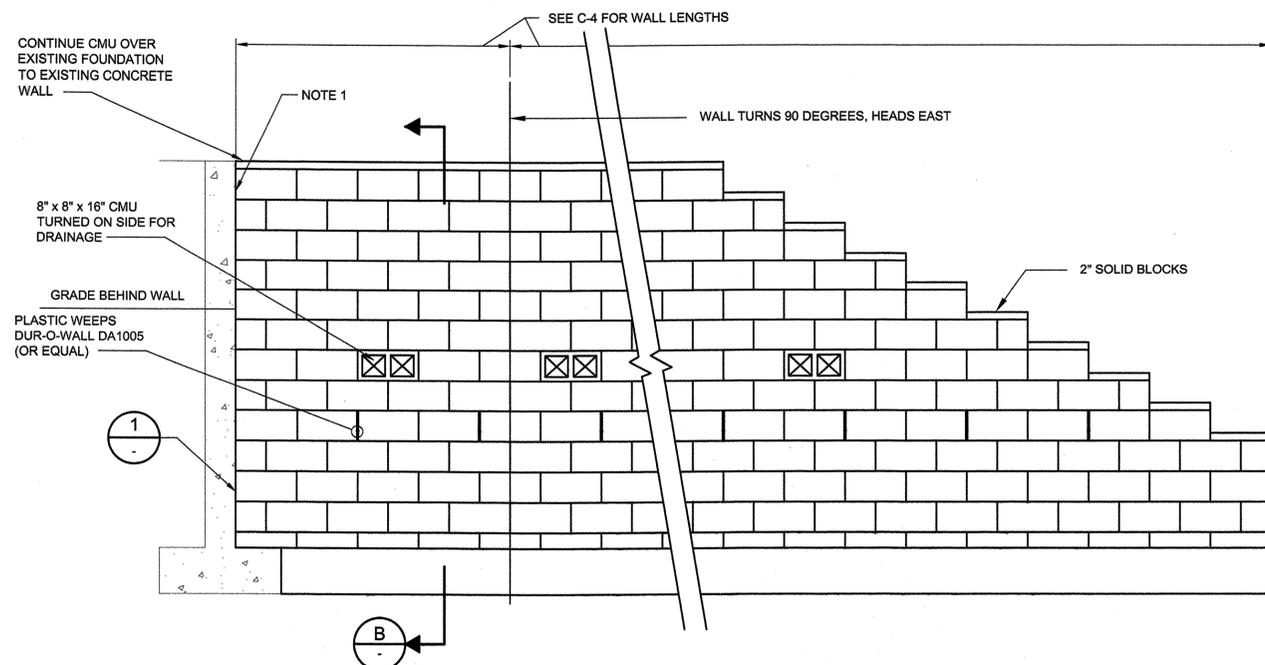


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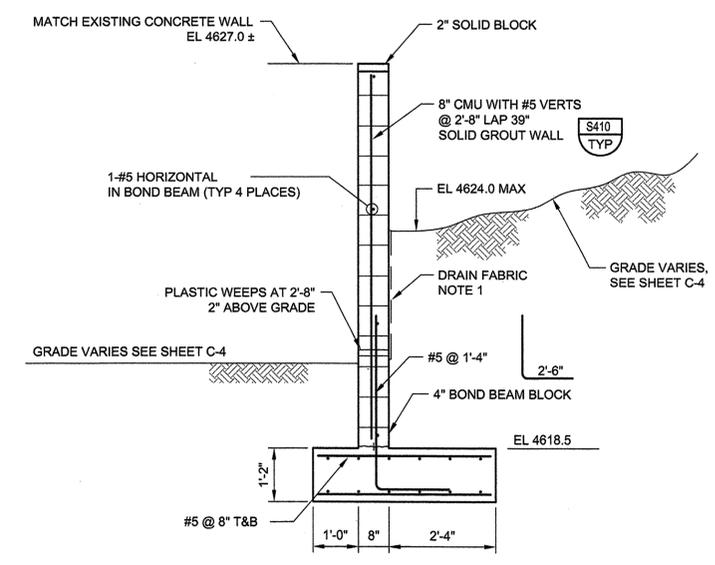
CARSON CITY PUBLIC WORKS
NORTH LIFT PUMP STATION IMPROVEMENTS
 CARSON CITY CIP NO. 5.0609
 CIVIL
 PAVING & GRADING PLAN - AREA A

DRAWING NO.
C-4

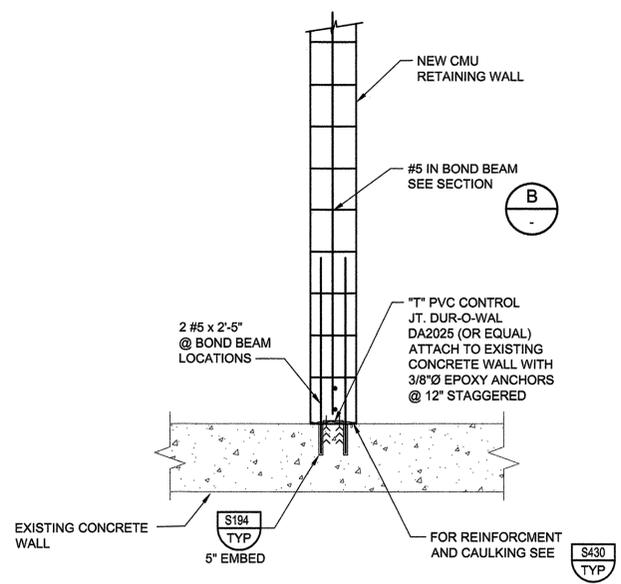
SHEET NO.
 11 OF 55



A NORTH LIFT PUMP STATION RETAINING WALL-ILLUSTRATIVE SECTION
 C-4 SCALE: 1/2"=1'-0"
 FILE: -



B NORTH LIFT RETAINING WALL-SECTION
 SCALE: 1/2"=1'-0"
 FILE: -

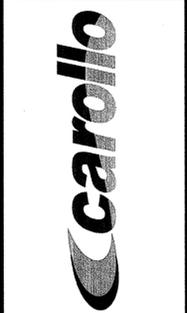


1 CONNECTION DETAIL
 SCALE: 3/4"=1'-0"
 FILE: -

- NOTES:**
- DRAIN FABRIC TO BE MIRAFI G100N (OR EQUAL), EXTEND FROM GRADE TO WITHIN 2" GRADE. EXTEND WEEPS THROUGH DRAIN FABRIC.
 - ALL AC SURFACES SHALL BE COMPACTED TO 92-97% RICE THEORETICAL METHOD AND RECEIVE A CHIPSEAL.
 - PROVIDE MASONRY CONTROL JOINTS AT 24'-0" SPACING. SEE S430 TYP
 - PROVIDE WATERPROOF COATING OF WALL SURFACE PER SPEC 07190.

VERIFY SCALES
 BAR IS ONE INCH ON ORIGINAL DRAWING
 0 1"
 IF NOT ONE INCH ON SHEET, VERIFY SCALES ACCORDINGLY

DESIGNED	JBR	DRAWN	PAT	CHECKED	GAG	DATE	OCTOBER 2010
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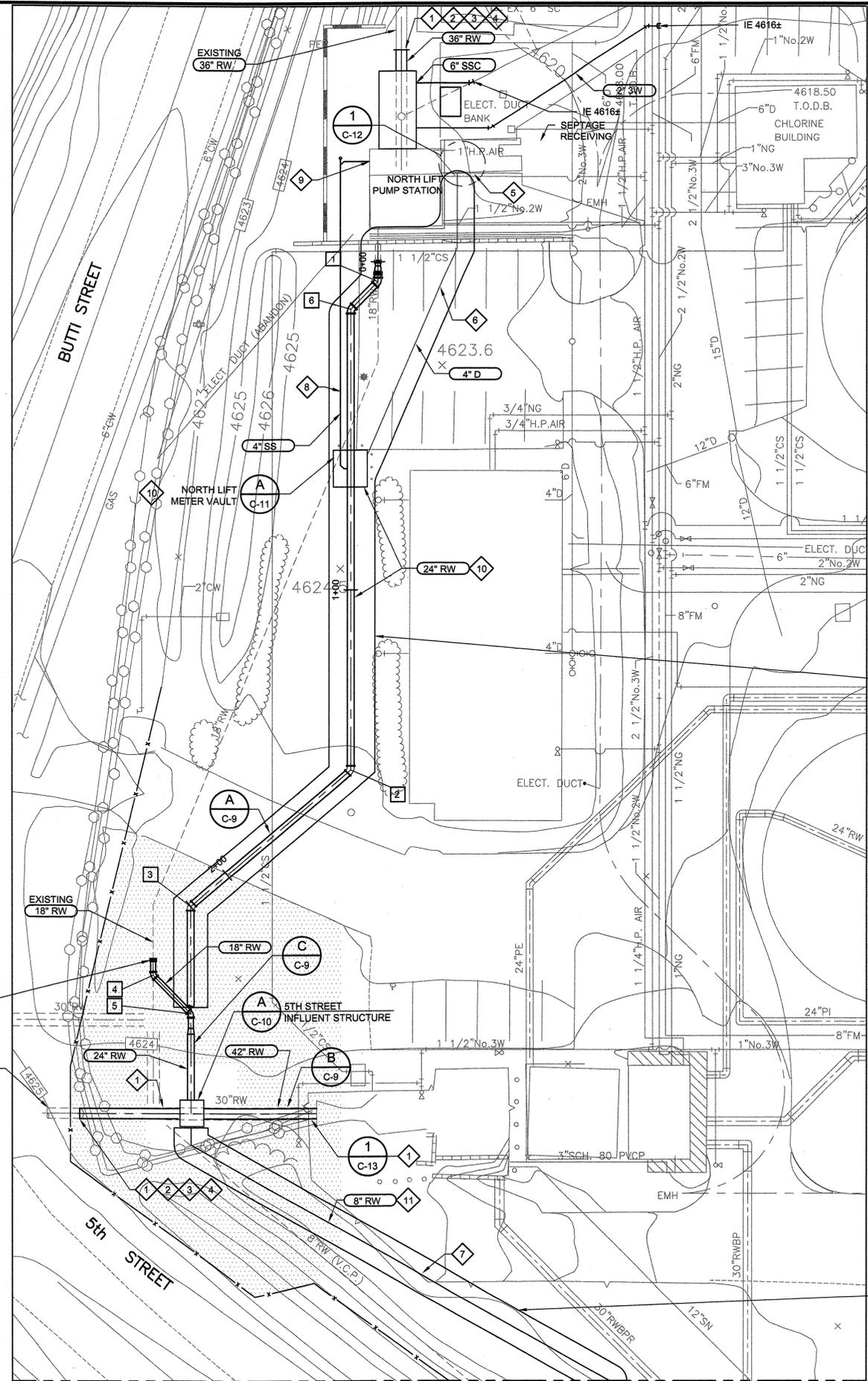
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CARSON CITY PUBLIC WORKS
NORTH LIFT PUMP STATION IMPROVEMENTS
 CARSON CITY CIP NO. 5.0609
 CIVIL
 PAVING & GRADING DETAILS

DRAWING NO.
C-5
 SHEET NO.
 12 OF 55



SCALE: 1" = 20'



BID ALTERNATE "A"

BID ALTERNATE "B"

MATCHLINE - SEE DWG C-7

GENERAL NOTES:

- FOR YARD PIPING NOTES SEE C-1.
- ELECTRICAL CONDUITS AND DUCT BANKS ARE SHOWN ON ELECTRICAL DRAWINGS.

COORDINATE CONTROL DATA

	N	E	STATION
1	1608774.43	174341.12	0+06.07
2	1608631.41	174333.09	1+52.38
3	1608591.33	174286.03	2+14.20
4	1608570.97	174275.02	
5	1608559.91	174286.09	
6	1608766.46	174333.15	0+17.34

KEY NOTES:

- SEE SPEC 01140 FOR WORK RESTRICTIONS.
- THE CONTRACTOR SHALL NOTIFY THE CARSON CITY PUBLIC WORKS AT (775) 887-2355 AT LEAST 48 HOURS PRIOR TO ANY EXCAVATION. THE CARSON CITY PUBLIC WORKS OR PUBLIC WORKS REPRESENTATIVE MUST BE PRESENT DURING ALL EXCAVATION WORK.
- CONTRACTOR SHALL CONNECT TO THE EXISTING 36" Ø PIPE BY INSTALLING A FIELD CLOSURE, SEE **C-13** CONTRACTOR
- SHALL REMOVE AND DISPOSE OF INTERFERING PORTIONS OF EXIST 36" Ø PIPE. ACTUAL LENGTH OF PIPE INSTALLED TO BE DETERMINED IN THE FIELD.
- CONNECTION POINTS SHOWN ARE APPROXIMATE ONLY. ACTUAL LOCATIONS ARE TO BE COORDINATED WITH THE CARSON CITY PUBLIC WORKS IN THE FIELD BEFORE ANY CUTTING OF EXISTING PIPE BEGINS.
- CORE DRILL THRU EXISTING WALL, FIELD ROUTE DRAIN TO DAYLIGHT AT INVERT ELEVATION 4614.6' AT EXISTING SEPTAGE RECEIVING DRAIN.
- SLOPE DRAIN @ 1/8" PER FOOT.
- BID ALTERNATE "B": MATCH EXISTING 8" RW SLOPE.
- SLOPE SEWER @ 1/8" PER FOOT MIN TO WET WELL.
- WET WELL PENETRATION PER **P304** OMIT PIPE SLEEVE OF WALL PENETRATION. **TYP**
- BID ALTERNATE "A": 24" RW AND NORTH LIFT METER VAULT
- BID ALTERNATE "B": 8" RW AND MANHOLE
- CONNECT TO EXISTING 18" RW. PROVIDE UP TO 50 LINEAR FEET OF 18" DIA DUCTILE IRON PIPE, UP TO 4 X BENDS AND UP TO 50 LINEAR FEET OF 24" DIA DUCTILE IRON PIPE.
- REMOVE AC PIPE TO NEAREST JOINT, OR COUPLING. SNAP CUTTERS, MASONRY BLADES OR OTHER METHODS THAT RELEASE ASBESTOS FIBERS AND DUST ARE NOT ALLOWED.

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VERIFY SCALES
 BASE IS ONE INCH ON ORIGINAL DRAWING
 0 1" 1"
 IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY

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BY	APPD	DESCRIPTION	DATE	REV.

CARSON CITY PUBLIC WORKS
NORTH LIFT PUMP STATION IMPROVEMENTS
 CARSON CITY CIP NO. 5.0609
 CIVIL
 YARD PIPING PLAN - AREA A

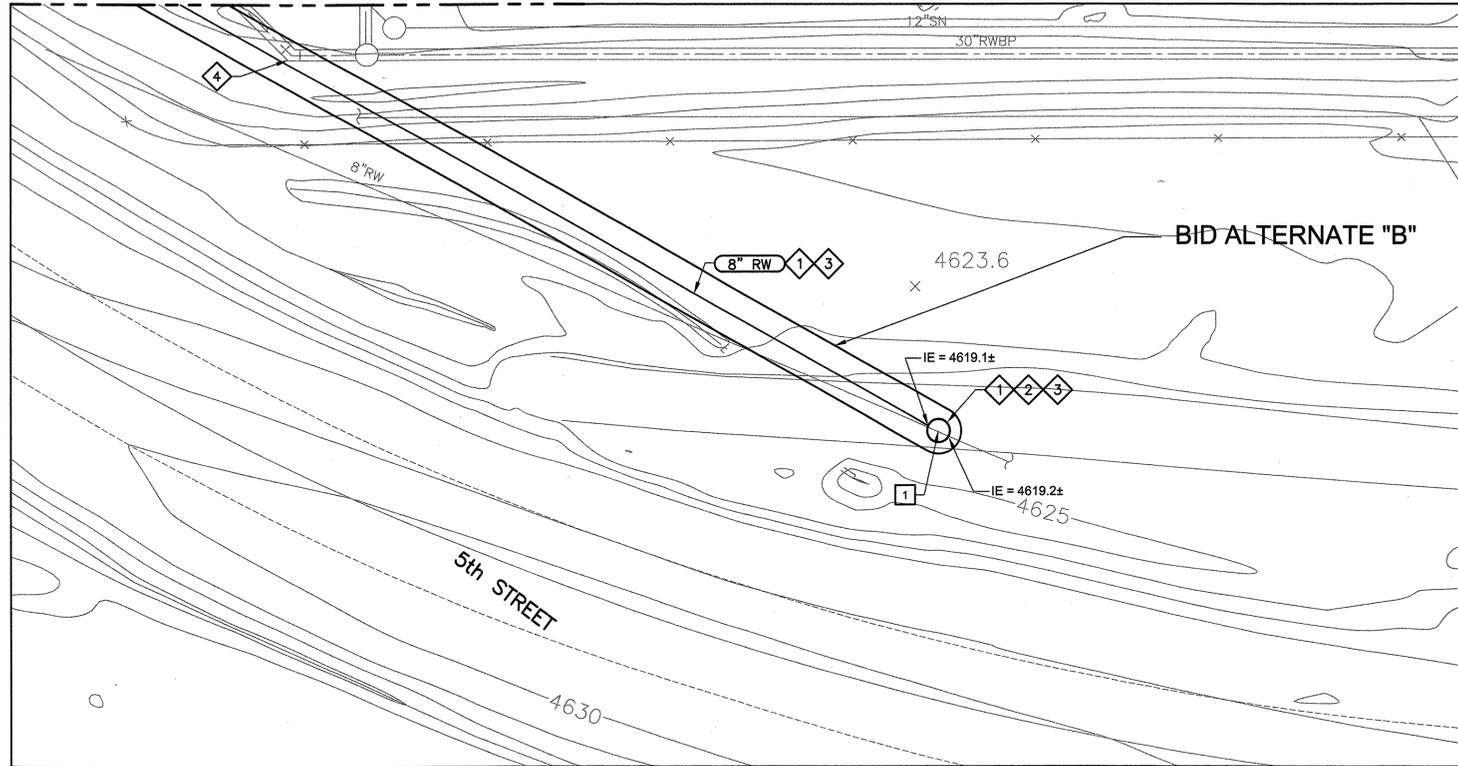
DRAWING NO.
C-6
 SHEET NO.
 13 OF 55

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SCALE: 1" = 20'

MATCHLINE - SEE DWG C-6



BID ALTERNATE "B"

5th STREET

4630

4623.6

4625

- GENERAL NOTES:**
- FOR YARD PIPING NOTES SEE SHEET C-1.
 - ELECTRICAL CONDUITS AND DUCT BANKS ARE SHOWN ON ELECTRICAL DRAWINGS.

VERIFY SCALES
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 0 1"
 IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY

DESIGNED	JBR
DRAWN	PAT
CHECKED	GAG
DATE	OCTOBER 2010



COORDINATE CONTROL DATA

	N	E
1	1608358.52	174575.09

- KEY NOTES:**
- SEE SPEC 01140 FOR WORK RESTRICTIONS.
 - NEW MANHOLE PER $\frac{3}{C-13}$ AND $\frac{4}{C-13}$
 COAT INTERIOR W/ EPOXY POLYMER SYSTEM PER SPEC 09960.
 - BID ALTERNATE "B":**
 8" RW AND MANHOLE. MATCH EXISTING SLOPE TO 5TH ST INFLUENT STRUCTURE.
 - PROTECT EXISTING BURIED PIPING AND UTILITIES.

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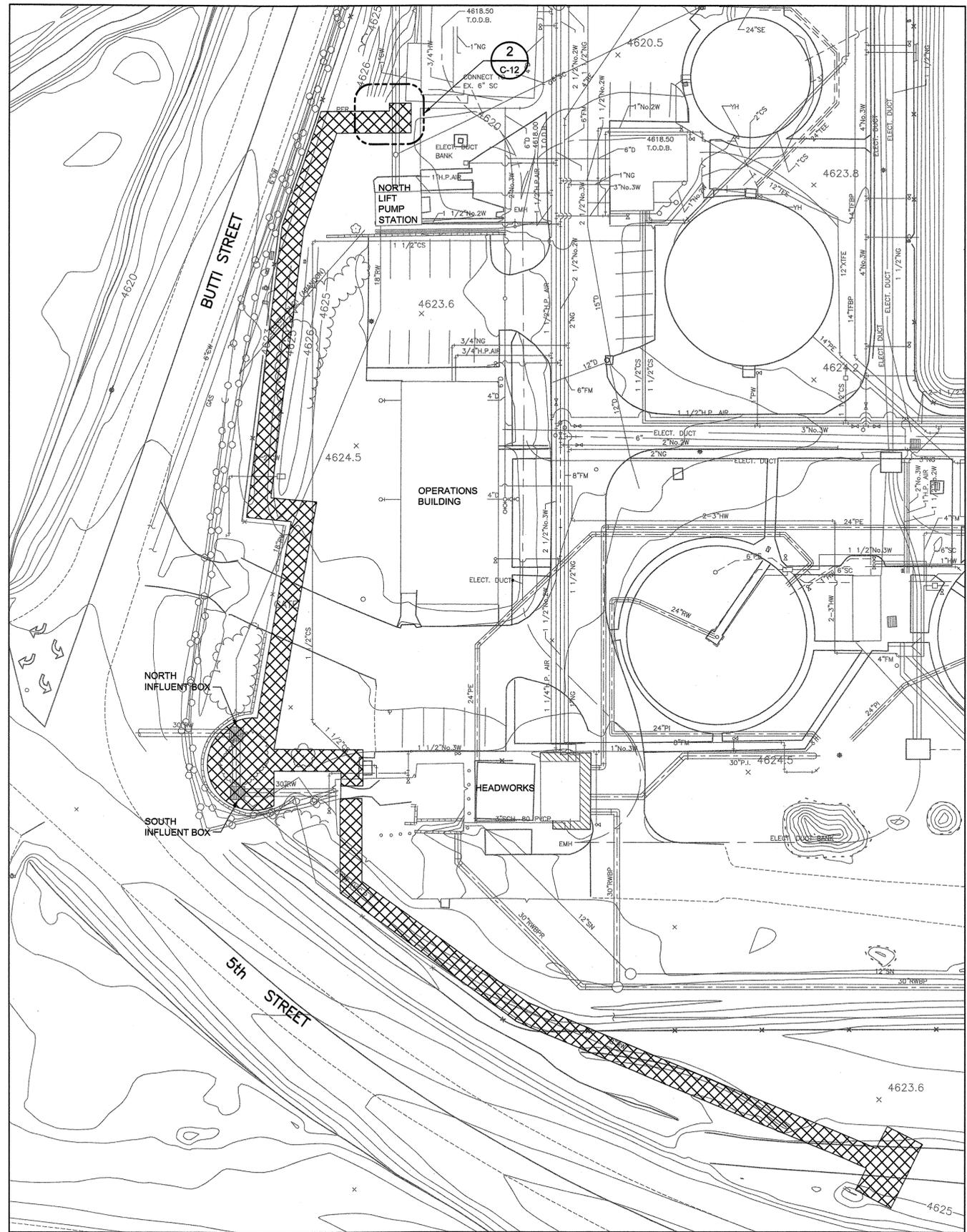
CARSON CITY PUBLIC WORKS
NORTH LIFT PUMP STATION IMPROVEMENTS
 CARSON CITY CIP NO. 5.0609
 CIVIL
 YARD PIPING PLAN - AREA B

DRAWING NO.	C-7
SHEET NO.	14 OF 55

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SCALE: 1" = 30'



GENERAL NOTES:

1. SEE SECTION 01140 FOR WORK RESTRICTIONS AND SEQUENCING.
2. THE CONTRACTOR SHALL PERFORM BYPASS WORK IN ACCORDANCE WITH SECTION 02550 AND AS SHOWN ON THE DRAWING.
3. THE CONTRACTOR WILL BE REQUIRED TO PREPARE A TRAFFIC CONTROL PLAN (TCP) FOR THE BYPASS EQUIPMENT AND PIPING WITHIN NDOT AND/OR CARSON CITY RIGHTS-OF-WAY. THE TCP SHALL SHOW HOW THE CONTRACTOR WILL PROTECT BOTH VEHICLES AND PEDESTRIANS FROM INJURY THAT MAY RESULT FROM HIS BYPASS EQUIPMENT AND PIPING.
4. THE LOCATION AND CONSTRUCTION OF THE BYPASS PIPING SHALL CONFORM TO THE DETAILS SHOWN ON DRAWING C-12. THE CONTRACTOR MAY ASK FOR VARIANCES TO THE DETAILS BY SHOWING ALTERNATIVES THAT WILL ACHIEVE THE REQUIRED SPEED LIMITS PROVIDING SAFETY TO VEHICLES AND PEDESTRIANS. CHANGES TO THESE DETAILS WILL REQUIRE APPROVAL FROM THE GOVERNING JURISDICTION OF THE RIGHT-OF-WAY BY AMENDING THE ENCROACHMENT PERMIT.
5. THE CONTRACTOR WILL BE REQUIRED TO KEEP THE DRIVEWAY ACCESS TO THE ADJOINING PROPERTIES ACCESSIBLE TO THE PUBLIC AND FIRE AND EMERGENCY VEHICLES. DESIGN FOR MAINTAINING ACCESS WILL BE PREPARED BY THE CONTRACTOR AND SUBMITTED TO THE CONTROLLING AGENCY FOR REVIEW AND APPROVAL.
6. ALL BYPASS OPERATIONS TO OCCUR WITHIN HATCHED CORRIDOR UNLESS SPECIFIC PERMISSION IS OBTAINED FROM OWNER. BYPASS PIPING WIDTH NOT TO EXCEED EITHER 10' OR DIMENSION OF CORRIDOR, WHICHEVER IS LESS. CORRIDOR LOCATION IS INTENDED TO SHOW GENERAL LOCATION. CONTRACTOR WILL STILL BE REQUIRED TO SUBMIT A DETAILED BYPASS PLAN.

LEGEND:

 TEMPORARY BYPASS PIPING & EQUIPMENT CORRIDOR

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 IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY

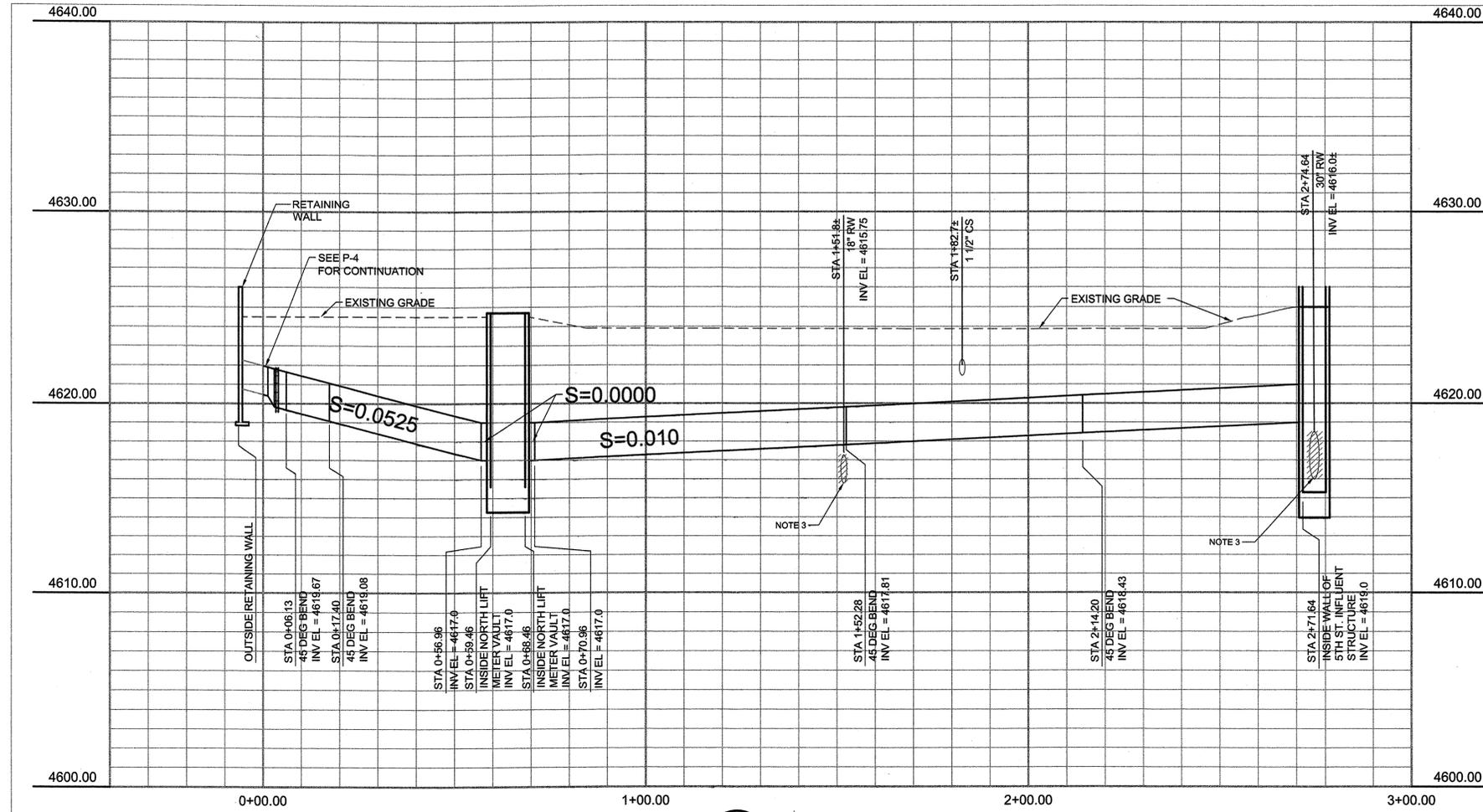
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CHECKED	GAG
DATE	OCTOBER 2010



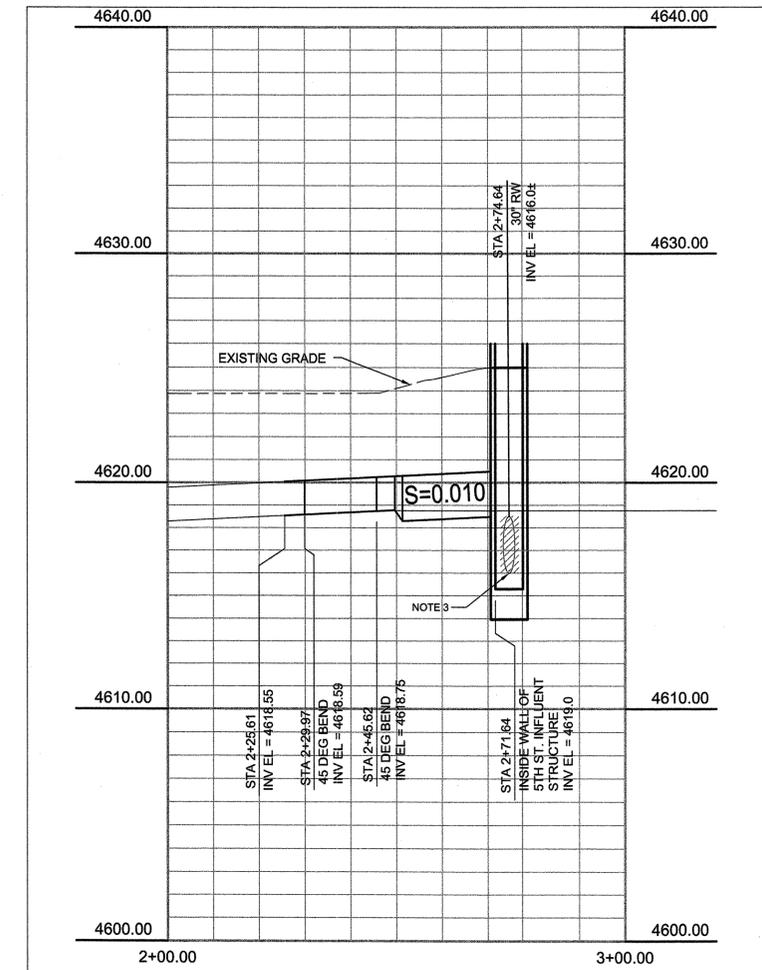
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CARSON CITY PUBLIC WORKS
NORTH LIFT PUMP STATION IMPROVEMENTS
 CARSON CITY CIP NO. 5.0609
 CIVIL
 BYPASS PIPING CORRIDOR

DRAWING NO.
C-8
 SHEET NO.
 15 OF 55



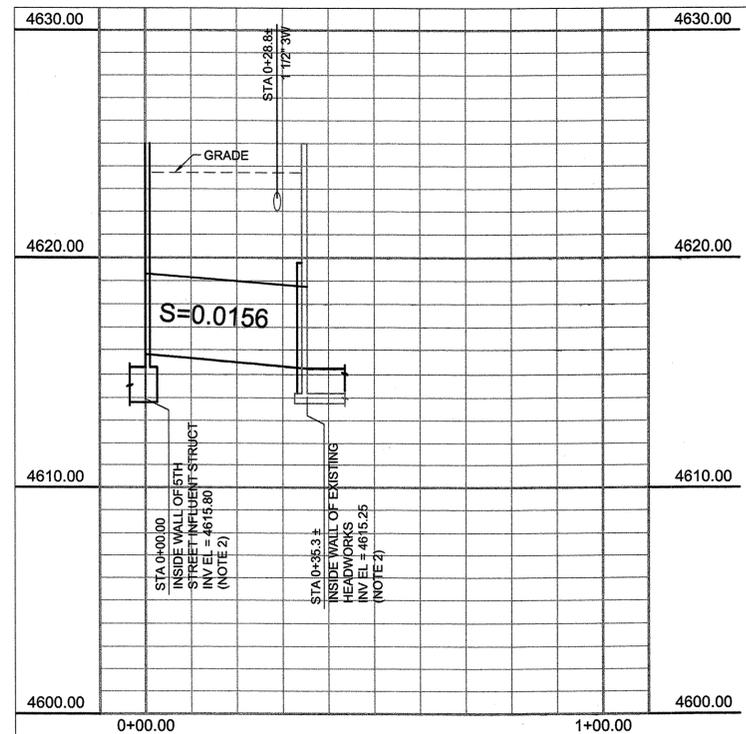
A 24" RW - BID ALTERNATE "A"
 C-6 SCALE: HORIZ 1"=20' VERT 1"=4'
 FILE: -



C 24" RW
 C-6 SCALE: HORIZ 1"=20' VERT 1"=4'
 FILE: -

GENERAL NOTES:

1. FIELD VERIFY LOCATION OF EXISTING PIPES & UTILITIES SEE GENERAL YARD PIPING NOTES ON C-1.
2. SEE SPECIFICATIONS FOR PIPE SCHEDULE, WORK CONSTRAINTS & SHORING.
3. TO BE DEMOLISHED AND/OR ABANDONED. SEE CIVIL DEMOLITION PLANS.



B 42" RW
 C-6 SCALE: HORIZ 1"=20' VERT 1"=4'
 FILE: -

VERIFY SCALES
 BASIS ONE INCH ON ORIGINAL DRAWING
 0 1"
 IF NOT ONE INCH ON THIS SHEET ADJUST SCALES ACCORDINGLY

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DRAWN	ARE
CHECKED	GAG
DATE	OCTOBER 2010



REV.	DATE	DESCRIPTION	BY	APPD

CARSON CITY PUBLIC WORKS
NORTH LIFT PUMP STATION IMPROVEMENTS
CARSON CITY CIP NO. 5.0609
 CIVIL
 PIPING PROFILES - 24" RW AND 42" RW

DRAWING NO.	C-9
SHEET NO.	16 OF 55

VERIFY SCALES
 BAR IS ONE INCH ON ORIGINAL DRAWING
 0 1"
 IF NOT ONE INCH ON REVISIONS, SCALES ACCORDINGLY

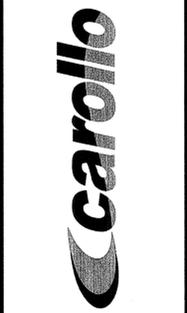
GENERAL NOTES:

- FOR YARD PIPING NOTES SEE DWG C-1.
- FOR STRUCTURAL NOTES SEE DWG S-1.
- FIELD VERIFY LOCATIONS MATCH EXIST MATERIAL.
- SEE YARD PIPING PLANS C-6 AND C-7 FOR CONTINUATION.
- PROVIDE EPOXY COATING SYSTEM ON ALL INTERIOR CONCRETE PER SECTION 09960.

KEY NOTES:

- 1 DENOTES DIRECTION OF GRATING BAR SPAN
- 2 NOT USED
- 3 BID ALTERNATE "B". 8" RW AND MANHOLE

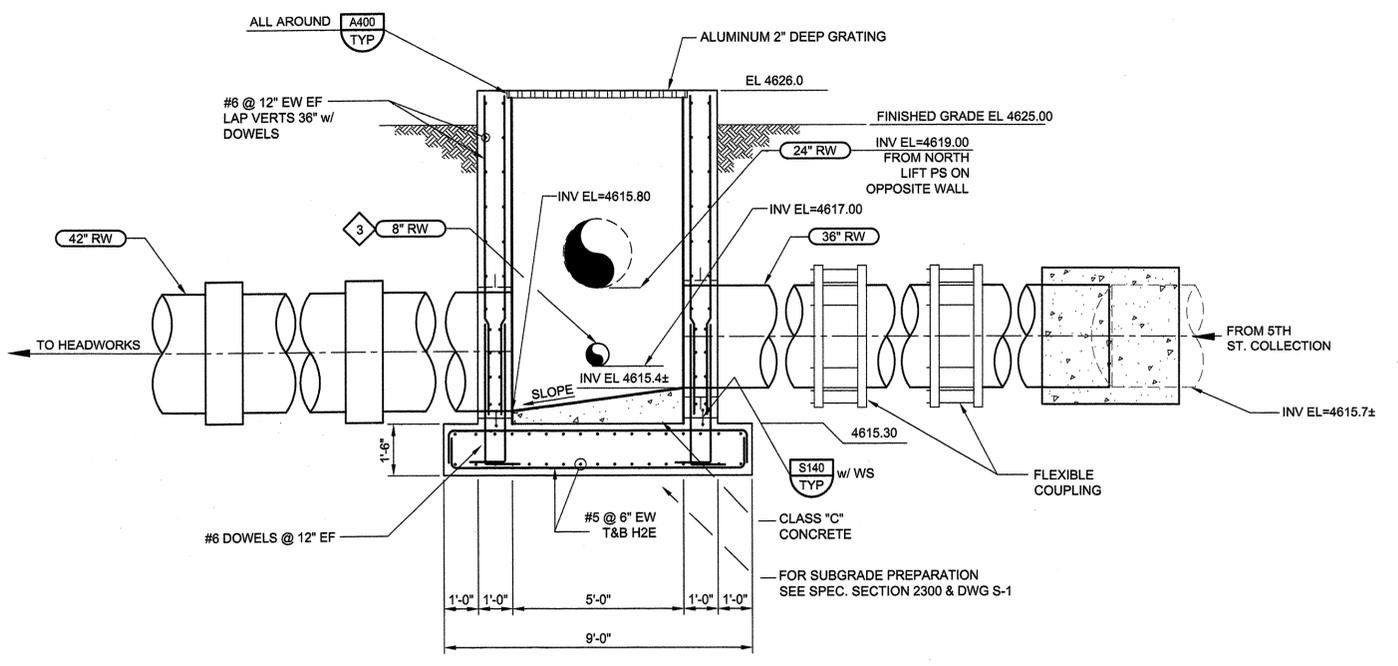
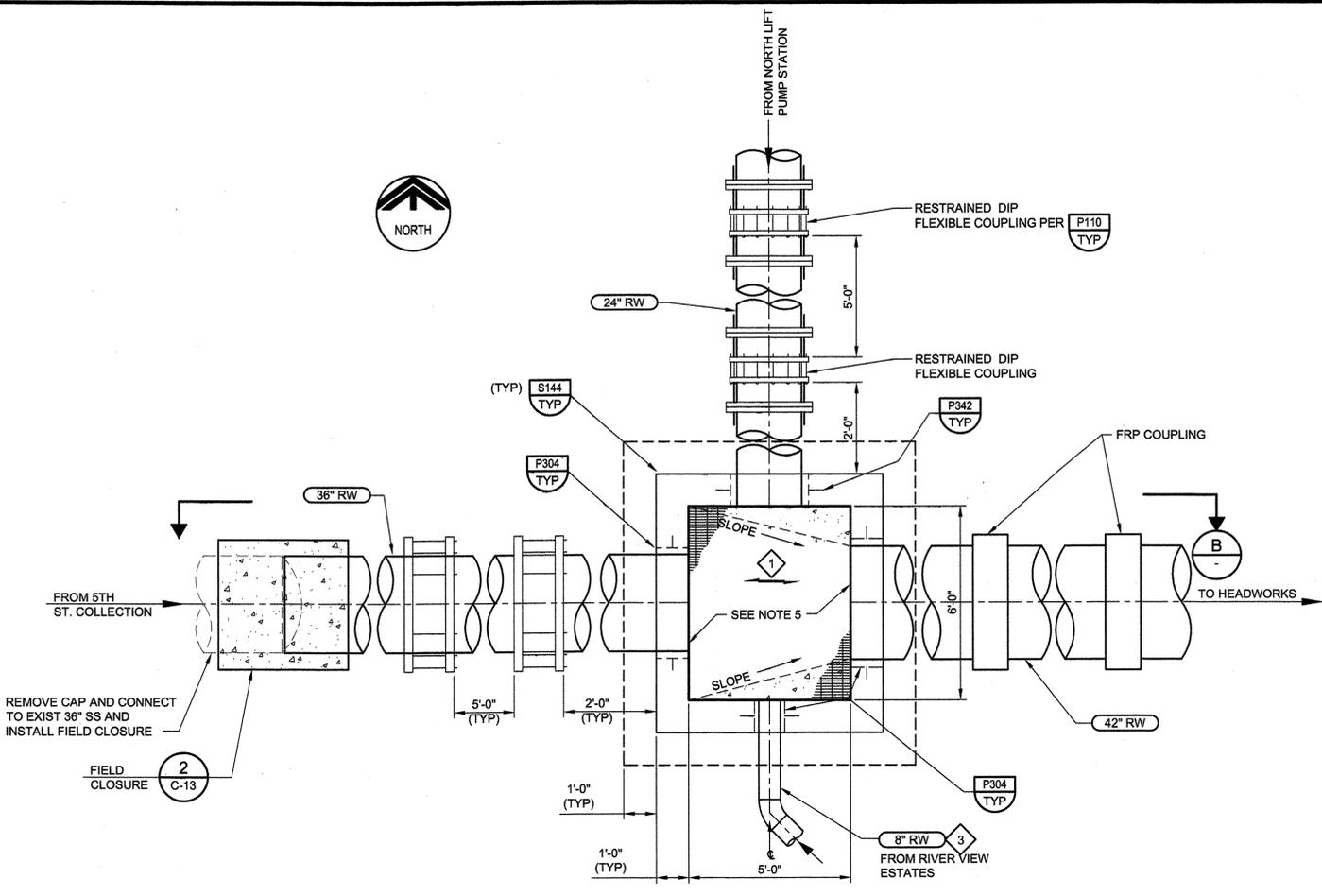
DESIGNED	JBR
DRAWN	ARE
CHECKED	GAG
DATE	OCTOBER 2010



REV.	DATE	DESCRIPTION	BY	APPD

CARSON CITY PUBLIC WORKS
NORTH LIFT PUMP STATION IMPROVEMENTS
 CARSON CITY CIP NO. 5.0609
 CIVIL
 5TH STREET INFLUENT STRUCTURE

DRAWING NO.
C-10
 SHEET NO.
 17 OF 55



Plot Saved By: AEVans 10-08-10 08:02pm
 C:\pw_working\projectwise\aeVans\dms82525\C-0C10 10-11-10 04:02pm AEVans XREFS: G-BDR; S-INFSTR100

GENERAL NOTES:

1. FOR YARD PIPING NOTES SEE DWG C-1
2. SEE YARD PIPING PLAN C-6 FOR CONTINUATION.
3. FOR SUBGRADE PREPARATION SEE SPECIFICATION 02300 AND DWG. S-1.
4. COAT ALL EXPOSED PIPING PER SPEC 09960.

KEY NOTES:

- 1 SEE ELECTRICAL AND INSTRUMENTATION DRAWINGS
- 2 CONTRACTOR SHALL PROVIDE A DIP PIPE SPOOL TO BE INSTALLED BY OWNER WHEN MAG METER NEEDS SERVICE. OWNER WILL DESIGNATE ON-SITE STORAGE AREA FOR PIPE SPOOL. DO NOT STORE PIPE SPOOL IN VAULT.

VERIFY SCALES
 BAR IS ONE INCH ON ORIGINAL DRAWING
 0 1"
 IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY

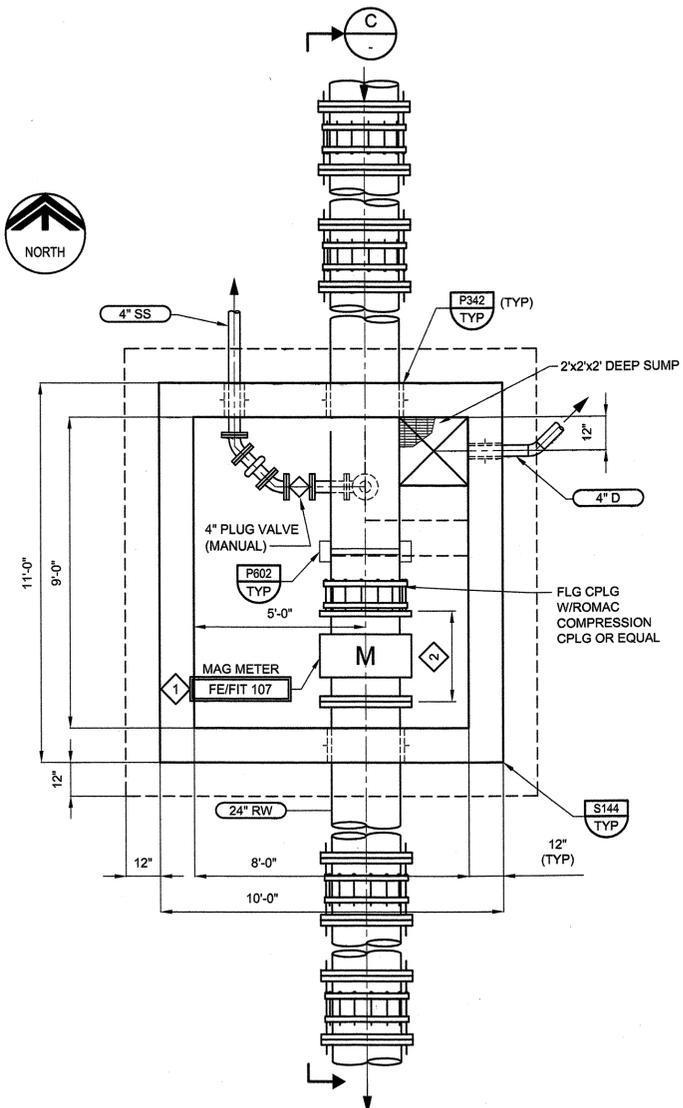
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CHECKED	GAG
DATE	OCTOBER 2010



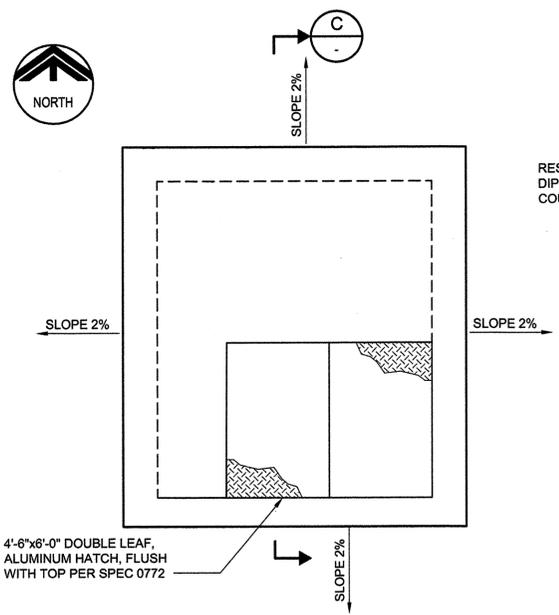
REV.	DATE	DESCRIPTION	BY	APP'D

CARSON CITY PUBLIC WORKS
 NORTH LIFT PUMP STATION IMPROVEMENTS
 CARSON CITY CIP NO. 5.0609
 CIVIL
 BID ALTERNATE "A"
 NORTH LIFT METER VAULT

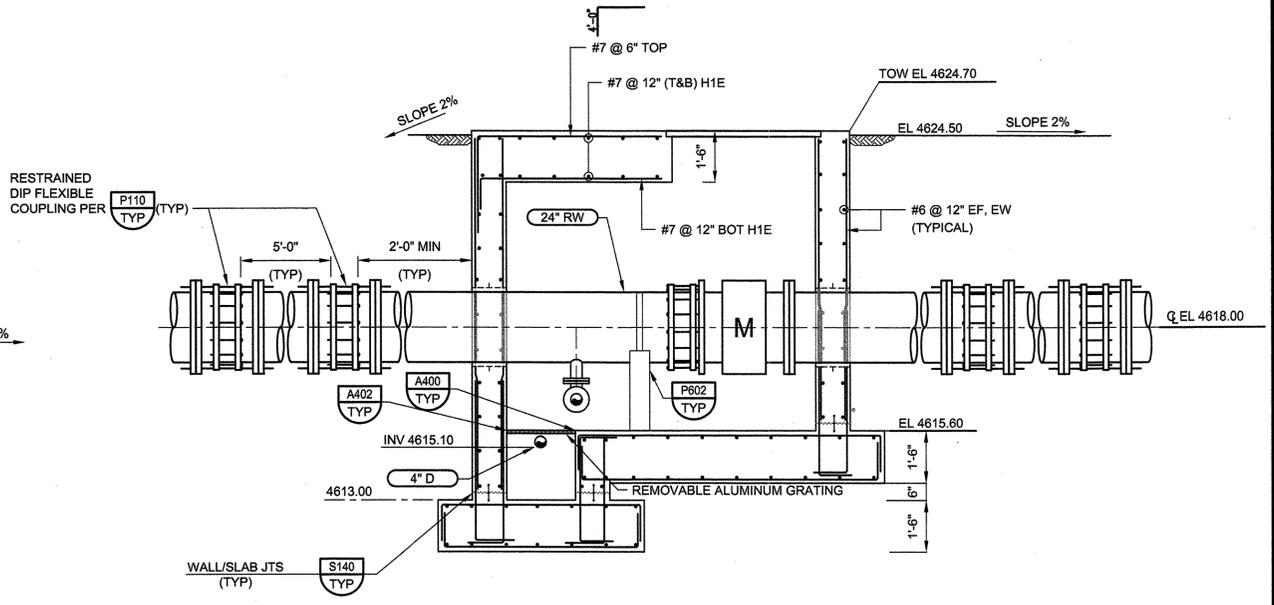
DRAWING NO.	C-11
SHEET NO.	18 OF 55



A NORTH LIFT METER VAULT - BOTTOM PLAN
 C-6 SCALE: 3/8"=1'-0"
 FILE: C-NLMV100

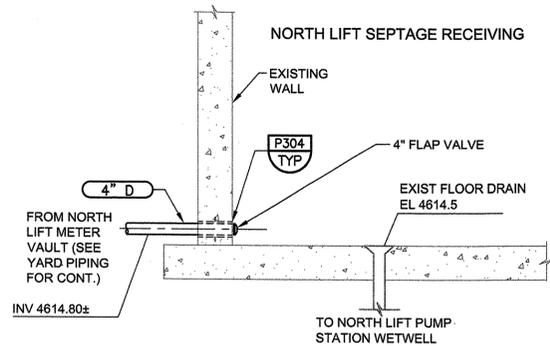


B NORTH LIFT METER VAULT - TOP PLAN
 SCALE: 3/8"=1'-0"
 FILE: C-NLMV100

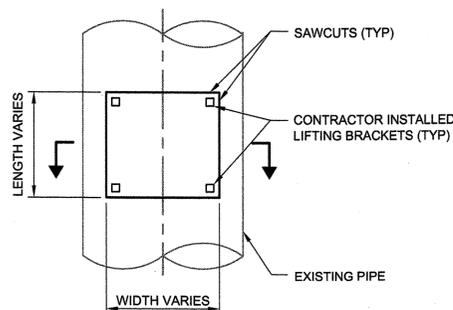


C NORTH LIFT METER VAULT - SECTION
 SCALE: 3/8"=1'-0"
 FILE: C-NLMV100

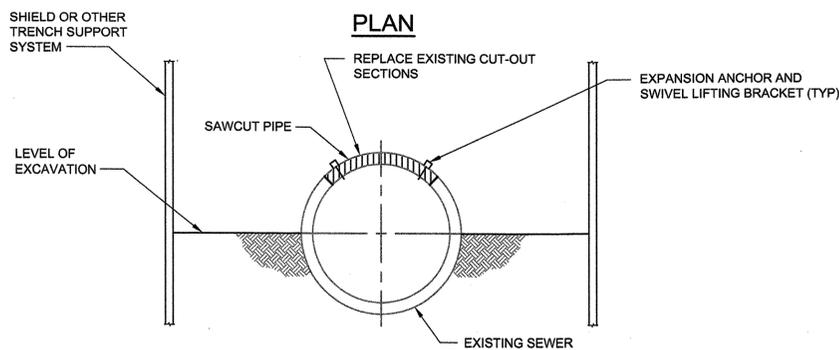
Last Saved By: AEvans 10-08-10 09:20am



1 DETAIL
C-6 SCALE: 3/8"=1'-0"
FILE: -



PLAN

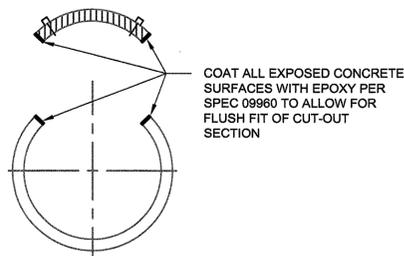


SECTION

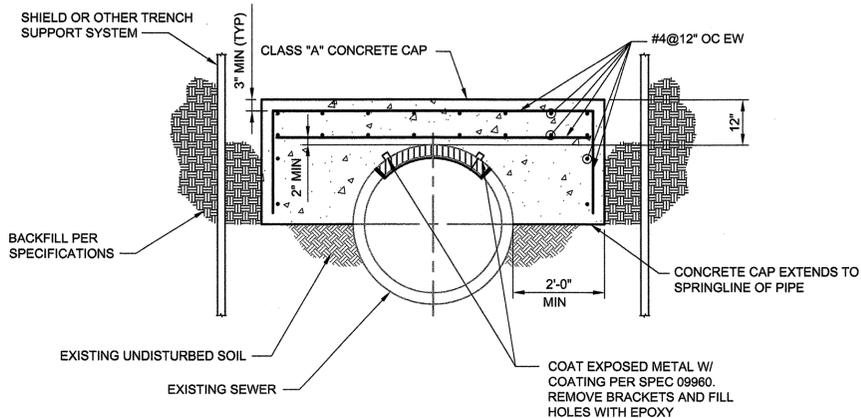
NOTES:

1. PROVIDE EXPANSION ANCHORS AND LIFTING BRACKETS FOR REMOVAL OF TOP SECTION OF PIPE.
2. CONTRACTOR SHALL DETERMINE THE NUMBER OF LIFTING BRACKETS REQUIRED BASED ON THE CONDITION OF THE EXISTING PIPE AND SIZE OF SECTION TO BE REMOVED.
3. REPLACE PIPE SECTIONS TO ORIGINAL LOCATIONS PER REPLACEMENT DETAILS 3 & 4 / THIS SHEET.
4. REMOVE EXCESS GROUNDWATER PER SPECIFICATION 02240.

2 TOP OF PIPE REMOVAL DETAIL
C-8 SCALE: 1/2"=1'-0"
FILE: -



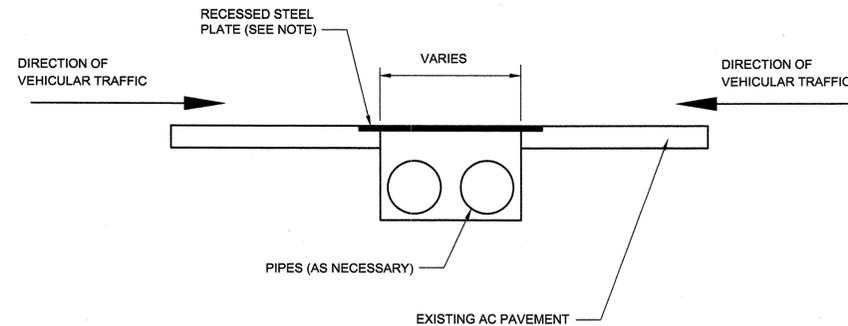
3 TOP OF PIPE REPAIR DETAIL
SCALE: 1/2"=1'-0"
FILE: -



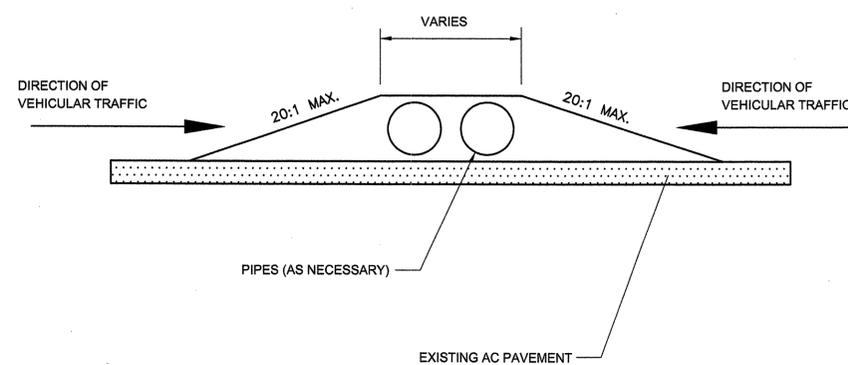
NOTE:

1. CONCRETE CAP SHALL EXTEND 2 FEET BEYOND END OF PIPE SECTION REMOVED.

4 TOP OF PIPE REPLACEMENT DETAIL
SCALE: 1/2"=1'-0"
FILE: -



CASE 1-FOR SPEEDS > 25 MPH



CASE 2-FOR SPEEDS < 25 MPH

NOTE:
TEMPORARY PAVEMENT MAY BE ALLOWED AS APPROVED BY GOVERNING JURISDICTION.

BYPASS PIPING DETAILS PERPENDICULAR TO TRAFFIC FLOW

5 ROAD CROSSINGS
SCALE: NTS
FILE: -

VERIFY SCALES
BAR IS ONE INCH ON ORIGINAL DRAWING
IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY

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CHECKED	GAG
DATE	OCTOBER 2010

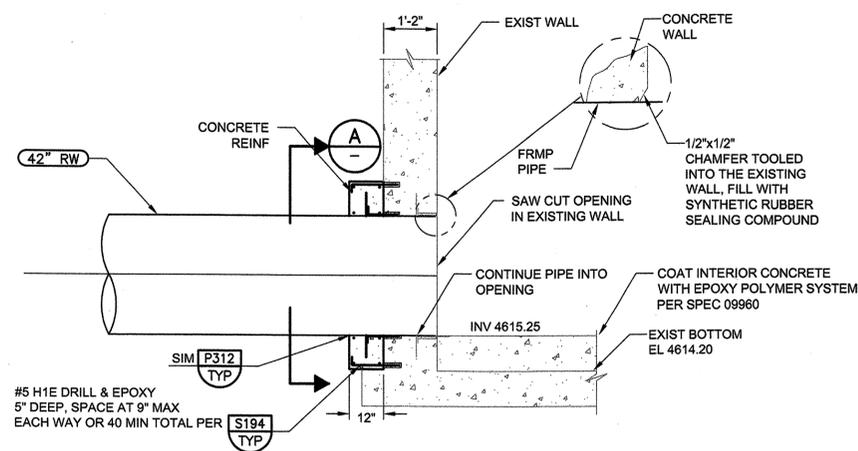
carollo



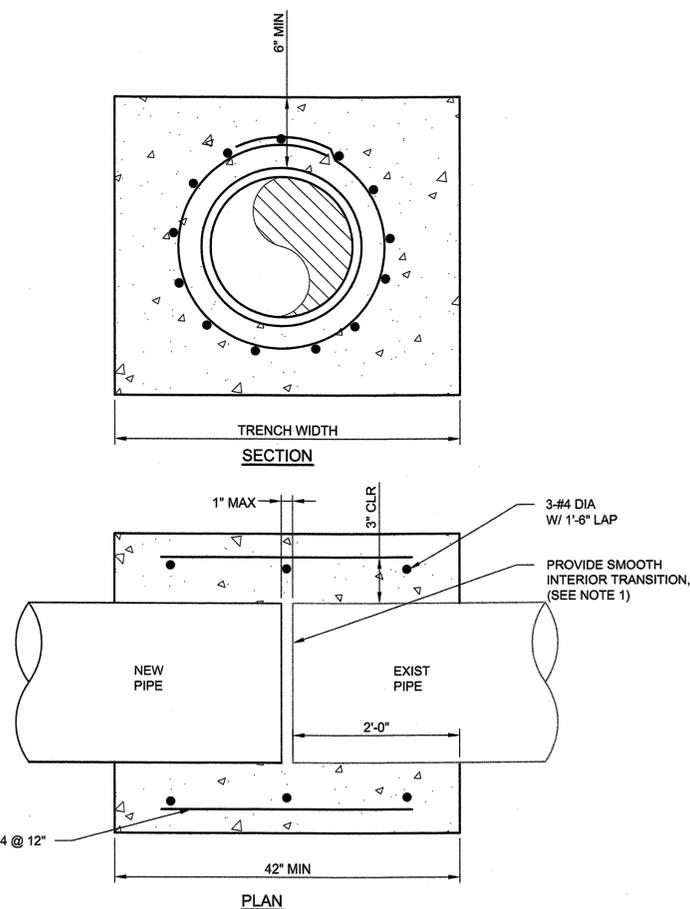
BY	APPD	DESCRIPTION	DATE	REV

CARSON CITY PUBLIC WORKS
NORTH LIFT PUMP STATION IMPROVEMENTS
CARSON CITY CIP NO. 5.0609
CIVIL
MISCELLANEOUS DETAILS

DRAWING NO.	C-12
SHEET NO.	19 OF 56

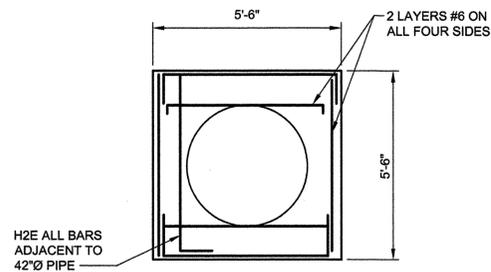


1 DETAIL
C-6 SCALE: 3/8"=1'-0"
FILE: -

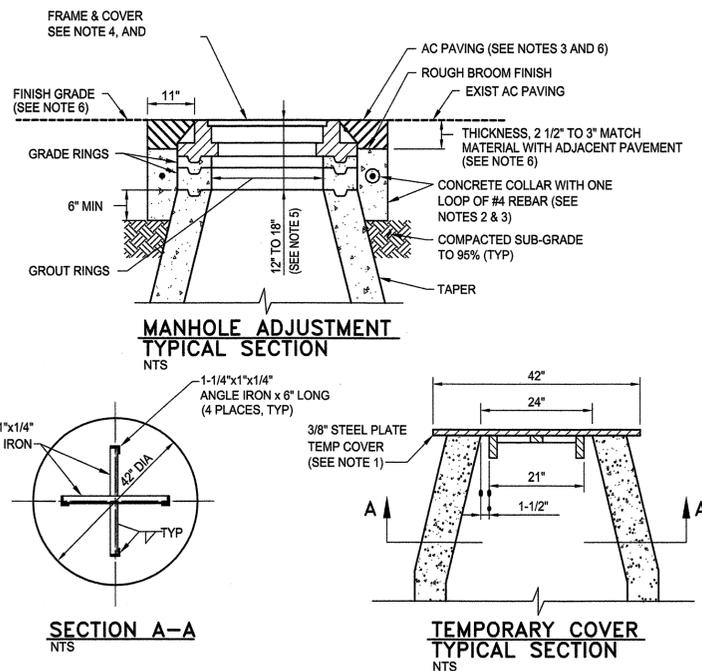


- NOTE:
- CONTRACTOR SHALL KEEP GAP WIDTH TO A MINIMUM. WRAP OUTSIDE OF JOINT TO PREVENT CONCRETE FROM ENTERING PIPE. JOINT WRAP SHALL OVERLAP 3 INCHES MAX EITHER SIDE OF JOINT. CONTRACTOR SHALL FILL AND OVERLAP JOINT ON INSIDE OF PIPE WITH EPOXY COATING PER SECTION 09960. INSIDE JOINT SHALL HAVE EPOXY OVERLAP 3 INCHES MIN EITHER SIDE OF JOINT.

2 DETAIL
C-6 SCALE: NTS
FILE: -

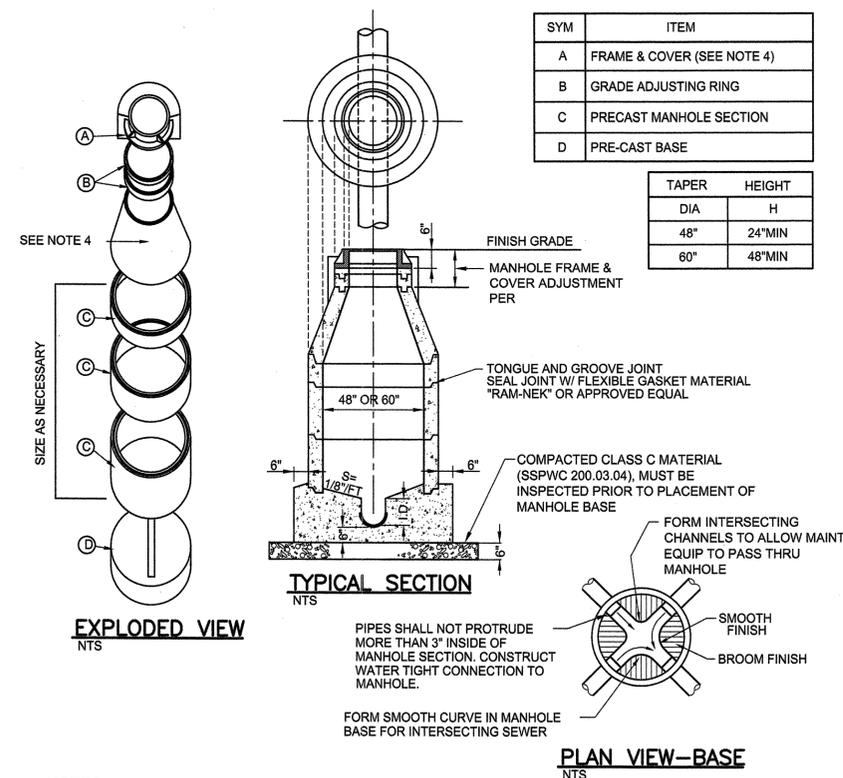


A SECTION
SCALE: 3/8"=1'-0"
FILE: M-YP303



- NOTES:
- INSTALL TEMPORARY COVER WITH CONE INSTALLATION WHEN INSTALLING NEW MANHOLE OR WHEN REMOVING EXISTING FRAME & COVER AND GRADE RINGS TO ADJUST TO FINISH GRADE. INSTALL COVER OVER MANHOLE BASE ON LIVE SEWERS TO PREVENT DEBRIS FROM ENTERING SEWER SYSTEM. THE MANHOLE BASE COVER SHALL BE IN PLACE PRIOR TO PERFORMING ANY ADJUSTMENTS.
 - CONCRETE SHALL CONFORM TO THE SSPWC SUB SECTION 202.01.12. REBAR SHALL BE USED ONLY WHEN THE MANHOLE IS LOCATED OUTSIDE PAVED AREAS.
 - THE CONCRETE COLLAR SHALL BE LEFT 2 1/2" TO 3" BELOW FINISHED ASPHALT SURFACE. APPLY AN APPROVED TACK COAT (CONFORMING TO THE SSPWC SECTION 316) AND FILL VOID BETWEEN ADJACENT PAVEMENT AND FRAME WITH TYPE 3 AC 20 PAVING (CONFORMING TO THE SSPWC SECTION 320). APPLY FOG SEAL (CONFORMING TO SSPWC SECTION 317) TO THE ASPHALT SURFACE. ALL CUTS IN PAVING SHALL BE STRAIGHT AND EVEN. EXCEPTION: WHEN STRUCTURE NOT LOCATED IN ASPHALT PAVEMENT OR LOCATED IN AN UNPAVED AREA, EXTEND CONCRETE TO FINISH GRADE.
 - INSTALL NEW FRAME & COVER UNLESS OTHERWISE SHOWN ON THE PLANS OR SPECIAL CONDITIONS. FRAME & COVER SHALL BE SET FLUSH WITH FINISH GRADE UNLESS OTHERWISE NOTED.
 - FOR NEW MANHOLE INSTALLATIONS, DISTANCE FROM COVER TO CONE SHALL BE 12" (INCHES) MINIMUM AND 15" (INCHES) MAXIMUM FOR MINOR RESIDENTIAL STREETS AND 15" (INCHES) MINIMUM AND 18" (INCHES) MAXIMUM FOR ALL OTHER STREETS. FOR ADJUSTING EXISTING FRAME & COVERS THE DISTANCE FROM COVER TO CONE SHALL NOT EXCEED 18" (INCHES).
 - WHEN LOCATED IN NDOT RIGHT OF WAY, CONCRETE COLLAR SHALL CONFORM TO NDOT STANDARD PLAN SHT R-4.7.3 AND STANDARD SPECIFICATION 609.

3 DETAIL
C-7 SCALE: NTS
FILE: -



- NOTES:
- MANHOLE SECTION LENGTHS ARRANGED TO FIT DEPTH. ALL SHIMS TO BE REMOVED AND VOIDS GROUTED.
 - POURED BASE MAY BE USED IF APPROVED BY THE CARSON CITY ENGINEERING DIVISION PRIOR TO CONSTRUCTION.
 - PRECAST MANHOLE COMPONENTS SHALL CONFORM TO ASTM C-478 MANHOLES TO BE SEALED WATER TIGHT.
 - NO "THRU" HOLES. CLOSED PICK HOLES ONLY: SBF 1900 CPH OR APPROVED EQUAL. NO LADDER RUNGS OR STEPS. CONCENTRIC CONES ONLY UNLESS APPROVED BY THE CARSON CITY ENGINEERING DIVISION.
 - MANHOLE MATERIALS AND CONSTRUCTION SHALL CONFORM TO REQUIREMENTS OF SECTION 204 "MANHOLES AND CATCH BASINS" OF THE SSPWC.
 - COAT OUTSIDE OF MANHOLE WITH FLEXIBLE RUBBERIZED COATING IN HIGH GROUNDWATER AREAS.
 - BASE CONFIGURATION TO BE INSTALLED AS SHOWN ON THE APPROVED PLANS. NO PLUGGING OR MODIFYING ALLOWED.
 - MANHOLES LOCATED OUTSIDE PAVED AREAS SHALL REQUIRE ALL WEATHER ACCESS ROADWAY CONSISTING OF 6" TYPE 2, CLASS B AGGREGATE BASE (CONFORMING TO THE SSPWC SECTION 200.01.02).

4 DETAIL
C-7 SCALE: NTS
FILE: -

VERIFY SCALES
BASE IS ONE INCH ON ORIGINAL DRAWING
0 1"
IF NOT ONE INCH ON THIS SHEET ADJUST SCALES ACCORDINGLY

DESIGNED	JBR
DRAWN	PAT
CHECKED	GAG
DATE	OCTOBER 2010



BY	APPD	DESCRIPTION	DATE

CARSON CITY PUBLIC WORKS
NORTH LIFT PUMP STATION IMPROVEMENTS
CARSON CITY CIP NO. 5.0609
CIVIL
MISCELLANEOUS DETAILS

DRAWING NO.
C-13
SHEET NO.
20 OF 55